



RESPONSE TO ADVISORY ACTION

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October 13, 2003

Petition to patent examiner Wayne A. Langel

Pertaining to Advisory Action, date mailed 10/08/2003, regarding patent application serial number 09/841,504, filed by Gene E. Lightner 04/24/2001, response to Advisory Action is enclosed within.

Acknowledgment that the period for response is continued three months from the date of final rejection is noted.

It is expected that the present response will update applicants response of 9-22-03.

Claim 1 as submitted previously is additionally amended for clarification, without changing the intent or scope of the claim.;

What is claimed is:

1. (previously presented) A method to produce hydrogen from a gas containing water vapor, hydrocarbons, and carbon monoxide,

which comprises:

providing a gas containing water vapor, hydrocarbons and carbon monoxide derived from a biomass, and

providing a catalyst for steam reforming said gas [containing hydrocarbons], and

providing a catalyst for steam shifting [gas derived from steam reforming containing carbon monoxide], and

subjecting said gas containing water vapor, hydrocarbons, and carbon monoxide to said catalyst for steam reforming to form hydrogen and carbon monoxide, and

subjecting gas following steam reforming containing water vapor and carbon monoxide to said catalyst for steam shifting to form hydrogen and carbon dioxide[, and] thereby producing a gas containing hydrogen derived from a biomass.

Thus claim 1 has been amended to provide a bona fide response under 37 CFR 1.16(b).

Need for these amendments was previously unrecognized by the applicant.

Thus this amended claim 1 will be submitted and listed as Claim 1 (currently amended).

Separate sheets of claim listings is submitted and is petitioned to be allowable.

Very respectfully,

Gene E. Lightner
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